

Abstract of the Disclosure

A controlled database system is designed for rapid access of data records with reduced memory storage requirements. The database system employs a set of obfuscated data records stored in data crystals that can only be accessed and read by an iterator, which is not directly accessible by the users of the database. The iterator accesses information responsive to a predefined query sent from a customer application. Rather than providing general tools to customers for constructing any possible queries, such as is done in structured query language database systems, database systems embodying the present invention allow only predefined types of queries to be used by customer applications. By restricting the types of queries customer applications can call, valuable data records remain secure from unauthorized reconstruction or duplication while still allowing limited access for specific purposes.